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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/899,429

DATE: 10/09/2001

TIME: 09:32:34

Input Set : A:\98385Jseq.txt

Output Set: N:\CRF3\10092001\I899429.raw

3 <110> APPLICANT: Hauptmann, Rudolph
4 Himmeler, Adolph
5 Maurer-Fogy, Ingrid
6 Stratowa, Christian
8 <120> TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNA Binding for
9 Them
11 <130> FILE REFERENCE: 98,385-J
13 <140> CURRENT APPLICATION NUMBER: 09/899,429
14 <141> CURRENT FILING DATE: 2001-07-03
16 <150> PRIOR APPLICATION NUMBER: 09/792,356
17 <151> PRIOR FILING DATE: 2000-02-23
19 <150> PRIOR APPLICATION NUMBER: 08/477,639
20 <151> PRIOR FILING DATE: 1955-06-07
22 <150> PRIOR APPLICATION NUMBER: 08/383,676
23 <151> PRIOR FILING DATE: 1995-02-01
25 <150> PRIOR APPLICATION NUMBER: 08/153,287
26 <151> PRIOR FILING DATE: 1993-11-17
28 <150> PRIOR APPLICATION NUMBER: 07/821,750
29 <151> PRIOR FILING DATE: 1992-01-02
31 <150> PRIOR APPLICATION NUMBER: 07/511,430
32 <151> PRIOR FILING DATE: 1990-04-20
34 <160> NUMBER OF SEQ ID NOS: 87
36 <170> SOFTWARE: PatentIn Ver. 2.0
38 <210> SEQ ID NO: 1
39 <211> LENGTH: 1368
40 <212> TYPE: DNA
41 <213> ORGANISM: Homo sapiens
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44 <221> NAME/KEY: CDS
45 <222> LOCATION: (1)..(1368)
47 <220> FEATURE:
48 <221> NAME/KEY: sig_peptide
49 <222> LOCATION: (1)..(87)
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (88)..(120)
54 <223> OTHER INFORMATION: Portion of TNF-BP pro protein cleaved by
55 extracellular proteases following secretion.
57 <220> FEATURE:
58 <221> NAME/KEY: misc_feature
59 <222> LOCATION: (606)..(633)
60 <223> OTHER INFORMATION: Portion of TNF-BP pro protein cleaved by
61 extracellular proteases following secretion.
63 <400> SEQUENCE: 1
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65 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
66 1 5 10 15

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68 gag ctg ttg gtg gga ata tac ccc tca ggg gtt att gga ctg gtc cct 96
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70          20          25          30
72 cac cta ggg gac agg gag aag aga gat agt gtg tgt ccc caa gga aaa 144
73 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
74          35          40          45
76 tat atc cac cct caa aat aat tcg att tgc tgt acc aag tgc cac aaa 192
77 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
78          50          55          60
80 gga acc tac ttg tac aat gac tgt cca ggc ccg ggg cag gat acg gac 240
81 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
82 65          70          75          80
84 tgc agg gag tgt gag agc ggc tcc ttc acc gct tca gaa aac cac ctc 288
85 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
86          85          90          95
88 aga cac tgc ctc agc tgc tcc aaa tgc cga aag gaa atg ggt cag gtg 336
89 Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
90          100          105          110
92 gag atc tct tct tgc aca gtg gac cgg gac acc gtg tgt ggc tgc agg 384
93 Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
94          115          120          125
96 aag aac cag tac cgg cat tat tgg agt gaa aac ctt ttc cag tgc ttc 432
97 Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
98          130          135          140
100 aat tgc agc ctc tgc ctc aat ggg acc gtg cac ctc tcc tgc cag gag 480
101 Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
102 145          150          155          160
104 aaa cag aac acc gtg tgc acc tgc cat gca ggt ttc ttt cta aga gaa 528
105 Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
106          165          170          175
108 aac gag tgt gtc tcc tgt agt aac tgt aag aaa agc ctg gag tgc acg 576
109 Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
110          180          185          190
112 aag ttg tgc cta ccc cag att gag aat gtt aag ggc act gag gac tca 624
113 Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
114          195          200          205
116 ggc acc aca gtg ctg ttg ccc ctg gtc att ttc ttt ggt ctt tgc ctt 672
117 Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
118          210          215          220
120 tta tcc ctc ctc ttc att ggt tta atg tat cgc tac caa cgg tgg aag 720
121 Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
122 225          230          235          240
124 tcc aag ctc tac tcc att gtt tgt ggg aaa tcg aca cct gaa aaa gag 768
125 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
126          245          250          255
128 ggg gag ctt gaa gga act act act aag ccc ctg gcc cca aac cca agc 816
129 Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
130          260          265          270
132 ttc agt ccc act cca ggc ttc acc ccc acc ctg ggc ttc agt ccc gtg 864

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Input Set : A:\98385Jseq.txt

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133 Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
134      275      280      285
136 ccc agt tcc acc ttc acc tcc agc tcc acc tat acc ccc ggt gac tgt 912
137 Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
138      290      295      300
140 ccc aac ttt gcg gct ccc cgc aga gag gtg gca cca ccc tat cag ggg 960
141 Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
142 305      310      315      320
144 gct gac ccc atc ctt gcg aca gcc ctc gcc tcc gac ccc atc ccc aac 1008
145 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
146      325      330      335
148 ccc ctt cag aag tgg gag gac agc gcc cac aag cca cag agc cta gac 1056
149 Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
150      340      345      350
152 act gat gac ccc gcg acg ctg tac gcc gtg gtg gag aac gtg ccc ccg 1104
153 Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
154      355      360      365
156 ttg cgc tgg aag gaa ttc gtg cgg cgc cta ggg ctg agc gac cac gag 1152
157 Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
158      370      375      380
160 atc gat cgg ctg gag ctg cag aac ggg cgc tgc ctg cgc gag gcg caa 1200
161 Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
162 385      390      395      400
164 tac agc atg ctg gcg acc tgg agg cgg cgc acg ccg cgg cgc gag gcc 1248
165 Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
166      405      410      415
168 acg ctg gag ctg ctg gga cgc gtg ctc cgc gac atg gac ctg ctg ggc 1296
169 Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
170      420      425      430
172 tgc ctg gag gac atc gag gag gcg ctt tgc ggc ccc gcc gcc ctc ccg 1344
173 Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
174      435      440      445
176 ccc gcg ccc agt ctt ctc aga tga 1368
177 Pro Ala Pro Ser Leu Leu Arg
178      450      455
181 <210> SEQ ID NO: 2
182 <211> LENGTH: 455
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 2
187 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
188 1      5      10      15
190 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
191      20      25      30
193 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
194      35      40      45
196 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
197      50      55      60
199 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp

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Input Set : A:\98385Jseq.txt

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200	65					70					75				80	
202	Cys	Arg	Glu	Cys	Glu	Ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu
203					85					90					95	
205	Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val
206				100					105					110		
208	Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cys	Arg
209			115					120					125			
211	Lys	Asn	Gln	Tyr	Arg	His	Tyr	Trp	Ser	Glu	Asn	Leu	Phe	Gln	Cys	Phe
212		130					135					140				
214	Asn	Cys	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu
215	145				150					155						160
217	Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu
218				165					170						175	
220	Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr
221			180						185					190		
223	Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser
224			195					200					205			
226	Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Gly	Leu	Cys	Leu
227		210					215					220				
229	Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys
230	225					230				235						240
232	Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys	Glu
233				245					250					255		
235	Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	Lys	Pro	Leu	Ala	Pro	Asn	Pro	Ser
236			260					265					270			
238	Phe	Ser	Pro	Thr	Pro	Gly	Phe	Thr	Pro	Thr	Leu	Gly	Phe	Ser	Pro	Val
239			275					280					285			
241	Pro	Ser	Ser	Thr	Phe	Thr	Ser	Ser	Ser	Thr	Tyr	Thr	Pro	Gly	Asp	Cys
242		290					295					300				
244	Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala	Pro	Pro	Tyr	Gln	Gly
245	305					310					315					320
247	Ala	Asp	Pro	Ile	Leu	Ala	Thr	Ala	Leu	Ala	Ser	Asp	Pro	Ile	Pro	Asn
248				325					330					335		
250	Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala	His	Lys	Pro	Gln	Ser	Leu	Asp
251			340					345					350			
253	Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tyr	Ala	Val	Val	Glu	Asn	Val	Pro	Pro
254			355				360						365			
256	Leu	Arg	Trp	Lys	Glu	Phe	Val	Arg	Arg	Leu	Gly	Leu	Ser	Asp	His	Glu
257		370					375					380				
259	Ile	Asp	Arg	Leu	Glu	Leu	Gln	Asn	Gly	Arg	Cys	Leu	Arg	Glu	Ala	Gln
260	385					390				395						400
262	Tyr	Ser	Met	Leu	Ala	Thr	Trp	Arg	Arg	Arg	Thr	Pro	Arg	Arg	Glu	Ala
263				405					410					415		
265	Thr	Leu	Glu	Leu	Leu	Gly	Arg	Val	Leu	Arg	Asp	Met	Asp	Leu	Leu	Gly
266			420					425					430			
268	Cys	Leu	Glu	Asp	Ile	Glu	Glu	Ala	Leu	Cys	Gly	Pro	Ala	Ala	Leu	Pro
269			435					440					445			
271	Pro	Ala	Pro	Ser	Leu	Leu	Arg									
272		450					455									

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/899,429

DATE: 10/09/2001

TIME: 09:32:34

Input Set : A:\98385Jseq.txt

Output Set: N:\CRF3\10092001\I899429.raw

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275 <210> SEQ ID NO: 3
276 <211> LENGTH: 483
277 <212> TYPE: DNA
278 <213> ORGANISM: Homo sapiens
280 <220> FEATURE:
281 <221> NAME/KEY: CDS
282 <222> LOCATION: (1)..(483)
284 <400> SEQUENCE: 3
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287   1           5           10           15
289 att tgc tgt acc aag tgc cac aaa gga acc tac ttg tac aat gac tgt      96
290 Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys
291           20           25           30
293 cca ggc ccg ggg cag gat acg gac tgc agg gag tgt gag agc ggc tcc      144
294 Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser
295   35           40           45
297 ttc acc gct tca gaa aac cac ctc aga cac tgc ctc agc tgc tcc aaa      192
298 Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys
299   50           55           60
301 tgc cga aag gaa atg ggt cag gtg gag atc tct tct tgc aca gtg gac      240
302 Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
303  65           70           75           80
305 cgg gac acc gtg tgt ggc tgc agg aag aac cag tac cgg cat tat tgg      288
306 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp
307           85           90           95
309 agt gaa aac ctt ttc cag tgc ttc aat tgc agc ctc tgc ctc aat ggg      336
310 Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly
311   100          105          110
313 acc gtg cac ctc tcc tgc cag gag aaa cag aac acc gtg tgc acc tgc      384
314 Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val Cys Thr Cys
315   115          120          125
317 cat gca ggt ttc ttt cta aga gaa aac gag tgt gtc tcc tgt agt aac      432
318 His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn
319   130          135          140
321 tgt aag aaa agc ctg gag tgc acg aag ttg tgc cta ccc cag att gag      480
322 Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu
323 145          150          155          160
325 aat                                                                 483
326 Asn
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330 <211> LENGTH: 161
331 <212> TYPE: PRT
332 <213> ORGANISM: Homo sapiens
334 <400> SEQUENCE: 4
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336   1           5           10           15
338 Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys
339   20           25           30

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 10/09/2001

PATENT APPLICATION: US/09/899,429

TIME: 09:32:35

Input Set : A:\98385Jseq.txt

Output Set: N:\CRF3\10092001\I899429.raw

L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:1488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36